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L11	l2 with L10	740	L11
L10	recombinase or transoosase or transposition of transposed or integrase or lox! or cre! or frt! or att! or loxp! or loxp511 or attb! or attp! or attl! or attr!	16528	L10
L9	l1 with L8	2492	L9
L8	pcr! or lcr! or amplification or amplifies or amplified or amplify	456951	L8
L7	l1 and l4	247	L7
L6	l3 and l4	3	L6
L5	l1 with l2 with L4	0	L5
L4	does not recombine	26475	L4
L3	l1 with l2	2493	L3
L2	pcr or amplification or amplified or amplify or amplifies or lcr	457008	L2
L1	recombinase or recombination or transposase or transposition or transposed or integrase	63961	L1

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☐ 551. 5962260. 24 Mar 97; 05 Oct 99. Recombinant production of human and bovine receptors for modified low-density lipoprotein. Sawamura; Tatsuya, et al. 435/69.1; 435/320.1 435/7.1 530/350 536/23.5. C12N015/12 C07K014/705.

☑ 552. 5962255. 05 Dec 94; 05 Oct 99. Methods for producing recombinant vectors. Griffiths; Andrew David, et al. 435/69.1; 435/252.3 435/252.33 435/320.1 435/91.41. C12P021/06 C12N015/00 C12N015/63 C12N001/20.

☑ 553. 5962249. 20 Dec 96; 05 Oct 99. Sized-based marker identification technology. Benton; Bret, et al. 435/29; 435/235.1 435/252.3 435/254.11 435/325 435/419 435/6. C12Q001/02 C12Q001/68 C12N015/09 C12N015/90.

☐ 554. 5958680. 07 Jun 95; 28 Sep 99. Mammalian telomerase. Villeponteau; Bryant, et al. 435/6; 435/320.1 435/366 536/24.1 536/24.5 536/25.1 536/25.2. C12Q001/68 C12N005/08 C12N015/63 C07H021/02.

☐ 555. 5955575. 22 Dec 97; 21 Sep 99. Antagonists of G-protein-coupled receptor. Peri; Krishna G., et al. 530/324; 530/326. A61K038/04 A61K038/16.

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l2 with L10	740

Previous Page Next Page

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A## #10

=> s recombinase? or transposase? or transposition or integrase
L1 59596 RECOMBINASE? OR TRANSPOSASE? OR TRANSPOSITION OR INTEGRASE

=> s lox and loxp
L2 348 LOX AND LOXP

=> s lox and loxp511
L3 10 LOX AND LOXP511

=> s loxp and loxp511
L4 18 LOXP AND LOXP511

=> s frt(5n)(mutant or mutate or mutated or mutants)
L5 40 FRT(5N)(MUTANT OR MUTATE OR MUTATED OR MUTANTS)

=> s attp and attb
L6 648 ATTP AND ATTB

=> s attr and attb
L7 207 ATTR AND ATTB

=> s attl and attb
L8 213 ATTL AND ATTB

=> s attl and attr
L9 275 ATTL AND ATTR

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L13 ANSWER 1 OF 130 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1998:47271 BIOSIS
DOCUMENT NUMBER: PREV199800047271
TITLE: A new DNA vehicle for nonviral gene delivery: Supercoiled minicircle.
AUTHOR(S): Darquet, A.-M.; Cameron, B.; Wils, P.; Scherman, D.; Crouzet, J. (1)
CORPORATE SOURCE: (1) UMR 133 CNRS/Rhone-Poulenc Rorer, Cent. Recherche de Vitry-Alfortville, 13 Quai Jules, Guesdes, 94403 Vitry sur Seine France
SOURCE: Gene Therapy, (***Dec., 1997***) Vol. 4, No. 12, pp. 1341-1349.
ISSN: 0969-7128.
DOCUMENT TYPE: Article
LANGUAGE: English
AB Plasmids currently used for nonviral gene transfer have the disadvantage of carrying a bacterial origin of replication and an antibiotic resistance gene. There is, therefore, a risk of uncontrolled dissemination of the therapeutic gene and the antibiotic resistance gene. Minicircles are new DNA delivery vehicles which do not have such elements and are consequently safer as they exhibit a high level of biological containment. They are obtained in E. coli by att site-specific recombination mediated by the phage lambda ***integrase*** . The desired eukaryotic expression cassette bounded by the lambda ***attP*** and ***attB*** sites was cloned on a recombinant plasmid. The expression cassette was excised in vivo after thermoinduction of the ***integrase*** gene leading to the formation of two supercoiled molecules: the minicircle and the starting plasmid lacking the expression cassette. In various cell lines, purified minicircles exhibited a two- to 10-fold higher luciferase reporter gene activity than the unrecombined plasmid. This could be due to either the removal of unnecessary plasmid sequences, which could affect gene expression, or the smaller size of minicircle which may confer better extracellular and intracellular bioavailability and result in improved gene delivery properties.

L13 ANSWER 2 OF 130 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1997:514307 BIOSIS
DOCUMENT NUMBER: PREV199799813510
TITLE: The site-specific integration system of the temperate Streptococcus thermophilus bacteriophage vphi-Sfi21.
AUTHOR(S): Bruttin, Anne; Foley, Sophie; Brussow, Harald (1)
CORPORATE SOURCE: (1) Nestle Res. Cent., Nestec Ltd., Vers-chez-les-Blanc, CH-1000 Lausanne 26 Switzerland
SOURCE: Virology, (1997) Vol. 237, No. 1, pp. 148-158.
ISSN: 0042-6822.
DOCUMENT TYPE: Article
LANGUAGE: English
AB The temperate bacteriophage vphi-Sfi21 integrates its DNA into the chromosome of Streptococcus thermophilus strains via site-specific recombination. Nucleotide sequencing of the attachment sites identified a 40-bp identity region which surprisingly overlaps both the 18-terminal bp of the phage ***integrase*** gene and the 11-terminal bp of a host tRNA-Arg gene. A 2.4-kb phage DNA segment, covering ***attP*** , the phage ***integrase*** , and a likely immunity gene contained all the genetic information for faithful integration of a nonreplicative plasmid into the ***attB*** site. A deletion within the int gene led to the loss of integration proficiency. A number of spontaneous deletions were observed in plasmids containing the 2.4-kb phage DNA segment. The deletion sites were localized to the tRNA side of the identity region and to phage or vector DNA with 3- to 6-bp-long repeats from the border region. A similar type of deletion was previously observed in a spontaneous phage mutant.

L13 ANSWER 3 OF 130 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1997:453335 BIOSIS
DOCUMENT NUMBER: PREV199799752538
TITLE: Integration specificities of two lambdoid phages (21 and e14) that insert at the same ***attB*** site.
AUTHOR(S): Wang, Hui; Yang, Chung-Hui; Lee, Grace; Chang, Felicia; Wilson, Hilary; Del Campillo-Campbell, Alice; Campbell, Allan (1)
CORPORATE SOURCE: (1) Dep. Biol. Sci., Stanford Univ., Stanford, CA 94305 USA
SOURCE: Journal of Bacteriology, (1997) Vol. 179, No. 18, pp. 5705-5711.
ISSN: 0021-9193.
DOCUMENT TYPE: Article
LANGUAGE: English
AB It was shown previously that phage 21 and the defective element e14 integrate at the same site within the icd gene of Escherichia coli K-12 but that 21 ***integrase*** and excisionase excise e14 in vivo very infrequently compared to excision of 21. We show here that the reverse is also true: e14 excises itself much better than it excises an adjacent 21 prophage. In vitro ***integrase*** assays with various ***attP*** substrates delimit the minimal ***attP*** site as somewhere between 366 and 418 bp, where the outer limits would include the outermost repeated dodecamers suggested as arm recognition sites by S. J. Schneider (Ph.D. dissertation, Stanford University, Stanford, Calif., 1992). We speculate that the reason 21 ***attP*** is larger than lambda ***attP*** (240 hp) is because it must include a 209-bp sequence homologous to the 3' end of the icd transcript in order to allow icd expression in lysogens. Alteration of portions of 21 ***attP*** to their e14 counterparts shows that 21 requires both the arm site and core site sequences of 21 but that replacements by e14 sequences function in some positions. Consistent with Schneider's in vivo results, and like all other known integrases from lambdoid phages, 21 requires integration host factor for activity.